Bridge Culvert Inspection														
Bridge File Number 70410 -1 Bridge Culvert					716.5		Form Type			CUL1				
Year Built 1953			<u> </u>			Lot No.		2						
Bridge or Town Name TWIN BUTTE						Inspector I				Jason Rusu				
Located Over TRI			TRIBUTARY TO YARROW CREEK,				Inspector Class			BR CLS A				
2		2.12.22.5.14.2.1, WATERCRS-ST					Assistant Name							
Located On	18.788	8.788			Assistant Class									
Water Body Cl./Year				Inspection					30-Oct-2011					
Navigabil. Cl./Year							Data Entry By		Erin Roberts					
Legal Land Location NE SEC			C 8 TMD 4 DCE 20 M/4M				Data Entry Date		29-Nov-2011					
Longitude, Latitude -113:51			1.36 /0.17.13				Reviewer Name		Garry Roberts					
			a Transportation (AIT)				Review Date		12-Nov-2011					
Contract Main. Area CMA26			6				Dept. Reviewer Name		Tim Davies					
Clear Roadway	/Skew	10.8 /					Dept. Review Date		01-Dec-2011					
AADT/Year		1,010 / 2	) / 2010 (A)				Follow-Up By		0. 200 2011					
Road Classifica	ition	RAU-21	-211.8-110				Follow-Up by							
Detour Length	(km)	8												
Bridge Culvert	Inform	ation												
Number of Culv	erts	1												
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Type		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1980	1980	BP		42.2			THICKNESS	RECTANGLE			
			1900	1900		БГ		42.2				RECTANGLE		
Special Feature		mont												
Special Feature	S COIII	nent												
					Uti	ilities (L	.ocated	at)						
Utility Attachme	ents													
Telephone West ditch and East						Gas								
Power							Munici	pal						
Others							Proble	m (Y/N)	No					
Remarks														
				A	oproac			ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment				4	4	Winding steep grade. Vertical grade is approx 9% to the North.								
Vertical Alignment			4	4	Vertice	grade is a	аррго	X 9 /0 to the 140i	ш.					
Roadway Width (m) 10.800														
Embankment				5	6	Minor (	damane @	) West	from ditch drai	inage from No	rth			
Sideslope (:1)			2.5		0 0		Minor damage @ West from ditch drainage from North							
		· 6)	2.0											
(Height of Cover(m) : <b>6</b> )  Guardrail (Y/N)  Yes														
Guardian (1714)				_										
Approach Roa	d / Eml	oankmen	t General Rat	ing	4	4								
						Haatea	om End							
Culvert Compo	nent				Last	Upstre: Now		ation of C	Condi	ion				
Direction	JIIGIIL				Lasi	INOW	West	idilon or C	Jonan					
End Treatment (Concrete, Steel, CONCRETE					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
Others, None) Headwall			6	6	Tree directly above headwall.									
Collar				6	6									
Wingwalls				X	X									
(Shape: )					1									
Cutoff Wall			Х	X										
				``										

			Unstra	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	<u> </u>	6	6	Typical cracks.
Heaving (mm)	0			Typical oracine.
Invert Above/Below Stream Bed	-			
Above/Below (mm)	300			-
Scour Protection		5	4	concrete blocks
(Type : CONCRETE)				COTICIETE BIOCKS
(Avg. Rock Size(mm):)				-
Scour/Erosion		5	4	Scour behind concrete slope protection. Stream alignment has
Scoul/E108l011			4	shifted South
Beavers (Y/N)	No			
Upstream End General Rating		5	4	
		Brid		Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S	Span (mm	): 1980	), Rise (mm): 1980, Type: BP)
Barrel Last Accessible Date	30-Oct-2011			2000mm span and rise as built
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	Typical cracks.
Measured Rise (mm)	2002			
Measured At Ring No.	1			
Sag (mm)				
Percent Sag				
Sidewall		6	6	Leaching through cracks lower sidewalls.
Measured Span (mm)	2010			Rust stains.
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		6	6	Exposed aggregate on floor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		5	5	
Separation (mm)	20			1
Longitudinal Seams		Х	X	
Total No. of Cracked Rings		7.	, ,	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	POS			

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		Brid	dge Cu	Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 1980	, Rise (mm): 1980, Type: BP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			4	Streambed is 1.0m below bevel end.) at the d/s end					
Baffle		Х	Х						
(Type:)		1							
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	6						
		D	ownstr	ream End					
Culvert Component			Now	Explanation of Condition					
Direction				East.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		6	6						
Collar		Х	Х	Trees @ headwall					
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed ABOVE				Waterfall @ outlet. Drops 1.0m in to large rocks.					
Above/Below (mm)	1500		1						
Scour Protection		5	5	Concrete blocks					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>600</b> )		T _	1 _						
Scour/Erosion		5	5						
Beavers (Y/N) No									
Downstream End General Rating		5	5						
		s	tructu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			4	(Stream aligns to SW bevel-45 deg turn					
Bank Stability			4	D/S-banks sloughing 5m D/S of bevel for 10m along bank.)					
HWM (m below Top of Culvert)									
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading  DEGRADING									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :									
Channel General Rating		4	4						

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		Maintenance Recon	nmendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·						
PLACE ADDITIONAL RIP RAP	2012	4m3 Class 2 U/S						
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	ì							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	OFF							
REPAIR SEAMS								
OTHER ACTION	2012	Re-align U/S channel to meet inlet						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 66.7/66	.7 Sufficiency Rating (Last/Now (%)	49.2/48.2	Est. Repl. Yr	2023	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Е	Stimated Tota	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Jason Rusu	Pre	Previous Assistant's Name					
Next Inspection Date	30-Jul-2013	Pre	revious Inspection Date 29-Nov-2009					
Inspection Cycle (Default) (months)	21			,				
Comment								